# Topics Covered on the Placement Test(s)

|  |  | **FUNDAMENTALS** 15 Questions No Calculator 1 Hour Limit | < 25% | **Adult Basic Education** MATH 050 |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 25% - 75% | **MATH 078** |
| **ENTRY** 10 Questions No Calculator 1 Hour Limit | < 30% | 75% | **MATH 079** |  |  |
|  |  |
| 30% - 75% | **MATH 088** Math 105 Math 106 |  |  |  |  |
| 75% | **ALGEBRA** 16 Questions Calculator Provided 1.5 Hour Limit | < 25% | **MATH 089** |  |  |
|  |  | 25% - 75% | **MATH 098** |  |  |
|  | 75% | **ADVANCED** 20 Questions Calculator Provided 2 Hour Limit | < 20% | **MATH 099** |
|  |  |  |  | 20% - 40% | **MATH 112** Math 107 Math 121 Math 210 |
|  |  |  | 40% - 60% | **MATH 113** Math 125 Math 148 |
|  |  |  | 60% - 80% (and a prior course in Trigonometry) | **MATH 150** |
|  |  |  | 80% | **MATH 151** |

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| 1. **FUNDAMENTALS TEST**    1. Operations on Whole Numbers    2. Operations on Integers    3. Operations on Fractions    4. Operations on Decimals    5. Ratios, Proportions, and Percents 2. **ENTRY TEST**    1. Solving Linear Equations    2. Solving Linear Inequalities    3. Graphing Linear Equations and Inequalities    4. Find Equations of Lines    5. Operations on Polynomials 3. **ALGEBRA TEST**    1. Factoring Polynomials    2. Solving Systems of Linear Equations    3. Operations on Rational Expressions   **Minimum Computational Requirement for most AAS Degrees** MATH 088, 105, or 106  **Minimum Proficiency Requirement for AA-DTA** MATH 099  **Minimum Quantitative Skills Requirement for AA-DTA** MATH 107, 112, 132, or 210   * 1. Solving Rational Equations   2. Operations on Radical Expressions   3. Solving Radical Equations | 1. **ADVANCED TEST**     1. Solving Quadratic Equations    2. Graphing Quadratic Equations    3. Solving Exponential and Logarithmic Equations    4. Operations on Matrices    5. Evaluating Trigonometric Functions    6. Graphing Trigonometric Functions    7. Solving Trigonometric Equations    8. Graphing Conic Sections    9. Finding Equations of Conic Sections    10. Applying Summation Notation    11. Partial Fraction Decomposition    12. Applying the Binomial Theorem |

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| COURSE | COURSE TITLE | CREDITS | DAY SECTIONS | NIGHT SECTIONS |
| MATH 050 | Review Math – Whole Numbers | 1 | MAC | MAC |
| MATH 078 | Pre-College Math I | 3 | F W S Su | F |
| MATH 079 | Pre-College Math I | 2 | F W S Su | F |
| MATH 088 | Pre-College Math II | 3 | F W S Su | F W |
| MATH 089 | Pre-College Math II | 2 | F W S Su | F W |
| MATH 098 | Pre-College Math III | 3 | F W S Su | F W S |
| MATH 099 | Pre-College Math III | 2 | F W S Su | F W S |
| MATH 105 | Mathematics for Health Sciences | 5 | W | ----------- |
| MATH 106 | Industrial Mathematics | 5 | F S | ----------- |
| MATH& 107 | Math in Society | 5 | F W S Su | ----------- |
| MATH 112 | College Algebra | 5 | F W S Su | S |
| MATH 113 | Trigonometry | 5 | W S (Su) | ----------- |
| MATH 121 | Math for Elementary Teachers I | 5 | F | W |
| MATH 122 | Math for Elementary Teachers II | 5 | W | S |
| MATH 125 | Finite Math | 5 | W | S |
| MATH& 148 | Business Calculus | 5 | S | W |
| MATH 150 | Precalculus | 5 | F S (Su) | ----------- |
| MATH& 151 | Calculus I | 5 | F W | ----------- |
| MATH& 152 | Calculus II | 5 | W S | ----------- |
| MATH& 153 | Calculus III | 5 | S Su | ----------- |
| MATH 154 | Calculus IV | 3 | F | ----------- |
| MATH 210 | Elements of Statistics | 5 | F W S Su | F |
| MATH 211 | Statistical Projects | 3 | S | ----------- |
| MATH 215 | Discrete Structures | 5 | S  (even years) | ----------- |
| MATH 220 | Linear Algebra | 5 | S | ----------- |
| MATH 240 | Differential Equations | 5 | W | ----------- |

## **Course Flow Chart**